

GILA RIVER BASIN

09447000 EAGLE CREEK ABOVE PUMPING PLANT, NEAR MORENCI, AZ

LOCATION--Lat 33° 03'52", long 109° 26'30", in SW_{1/4}SE_{1/4} sec. 23, T.4 S., R.28 E., Greenlee County, Hydrologic Unit 15040005, on right bank 2 mi upstream from Phelps Dodge Corp. pumping plant, 5 mi west of Morenci, and 12 mi upstream from mouth.

DRAINAGE AREA--622 mi².

PERIOD OF RECORD--Apr. 1944 to current year.

REVISED RECORDS--WSP 1850-C: 1966. WDR AZ-88-1: Drainage area.

GAGE--Water-stage recorder. Datum of gage is 3,673.5 ft above sea level. Oct. 25, 1984, to Mar. 6, 1986, at site 1 mi upstream at datum 24.1 ft higher. Prior to Oct. 25, 1984, at various sites within 1 mi upstream from present site at different datums. Aug. 23, 1950, to Aug. 1, 1981, and since Mar. 6, 1984, supplementary gages at various sites within 1 mi upstream from present site at different datums. Feb. 7, 1993, to July 2, 1993, on right bank at different datum.

REMARKS--Records good, except estimated daily discharges, which are poor. Diversions above station for irrigation of about 500 acres, mostly above Willow Creek. Water from Black River was pumped into Eagle Creek basin, 52 mi upstream from this station, and water was pumped from wells into Eagle Creek near Double Circle Ranch below Willow Creek. The monthly quantities pumped are shown in the table below. Diversion by pumping for industrial and municipal use in and near Morenci and Clifton are made from Eagle Creek, 3 mi downstream from this station and from San Francisco River near Clifton. Monthly quantities diverted are shown in the table below.

AVERAGE DISCHARGE (unadjusted)--58 years, 67.5 ft³/s, 48,870 acre-ft/yr; median of yearly mean discharges, 38 ft³/s, 27,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 36,800 ft³/s Jan. 18, 1993, on basis of slope-area measurement; minimum, 2.9 ft³/s June 25, 1982.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 800 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sept. 11.....	1530	*978	*4.87

Minimum daily discharge, 15 ft³/s Dec. 19; Dec. 27-29; Aug. 16-17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	18	19	e17	e20	16	20	23	22	20	19	20
2	17	16	19	e18	e19	16	23	24	22	20	56	21
3	19	16	19	e18	e19	16	25	24	22	20	39	22
4	19	16	19	e17	e19	16	25	24	22	21	118	23
5	17	17	19	e17	e18	16	27	24	22	20	67	18
6	17	20	18	e17	e18	17	28	23	23	20	40	16
7	21	20	19	e17	e18	18	29	23	23	20	34	17
8	21	19	18	e17	e18	19	29	e23	23	22	29	21
9	21	18	18	e16	e18	19	23	e24	22	25	23	31
10	20	19	18	e16	e18	19	19	e24	21	24	25	26
11	18	20	18	e17	e17	18	20	e24	22	23	42	260
12	17	20	20	e18	e17	18	24	e25	24	25	38	111
13	16	20	19	e17	e17	18	25	e25	23	25	28	65
14	16	20	17	e17	e17	17	26	e24	20	22	19	45
15	16	20	16	e17	e17	17	26	e23	20	24	16	35
16	16	19	17	18	e17	17	26	e23	19	27	15	26
17	16	19	16	18	e17	18	26	e23	19	35	15	21
18	16	19	16	18	e17	18	26	e23	19	35	16	23
19	16	19	15	18	e17	18	25	e23	20	31	18	17
20	16	19	16	18	e16	18	25	e23	20	31	20	16
21	16	19	e16	18	e16	18	25	e23	20	39	27	20
22	17	20	e16	18	e16	18	25	23	20	e60	23	21
23	18	20	e17	18	e16	18	24	23	20	e45	21	17
24	18	20	e17	19	e16	18	24	24	20	e30	19	16
25	18	20	e17	18	e16	18	24	25	20	e25	18	16
26	18	20	e16	18	e16	18	24	25	21	e17	17	16
27	18	21	e15	18	e16	18	24	25	21	68	17	16
28	18	21	e15	18	16	18	23	24	20	107	17	16
29	18	21	e15	e19	---	18	22	24	21	91	20	16
30	18	19	e16	e20	---	18	22	23	21	40	23	16
31	18	---	e17	e20	---	18	---	23	---	28	22	---
TOTAL	546	575	533	550	482	547	734	734	632	1040	901	1004
MEAN	17.61	19.17	17.19	17.74	17.21	17.65	24.47	23.68	21.07	33.55	29.06	33.47
MAX	21	21	20	20	20	19	29	25	24	107	118	260
MIN	16	16	15	16	16	16	19	23	19	17	15	16
AC-FT	1080	1140	1060	1090	956	1080	1460	1460	1250	2060	1790	1990
CFSM	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.05	0.05	0.05
IN.	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.06	0.05	0.06
(*)	622	436	237	227	190	273	509	949	1418	997	295	497
(**)	745	737	797	811	701	824	1076	1171	1011	964	732	776
CAL YR 2001	TOTAL 10095	MEAN 27.66	MAX 157	MIN 14	AC-FT 20020	CFSM 0.04	IN. 0.60					
WTR YR 2002	TOTAL 8278	MEAN 22.68	MAX 260	MIN 15	AC-FT 16420	CFSM 0.04	IN. 0.50					

e Estimated

(*) Pumpage, in acre-feet, into Eagle Creek from Eagle Creek wells.

(**) Pumpage, in acre-feet, into Clifton-Morenci, from San Francisco River and Eagle Creek